10/629/73

METHOD OF FABRICATING LONG-WAVELENGTH VCSEL

AND APPARATUS

Field of the Invention

7 This invention relates to a method of fabricating a vertical 8 cavity surface emitting laser which is capable of emitting long-9 wavelength light and to the vertical cavity surface emitting 10 laser.

Background of the Invention

Vertical cavity surface emitting lasers (VCSELs) include first and second distributed Bragg reflectors (DBRs) formed on opposite sides of an active area. The VCSEL can be driven or pumped electrically by forcing current through the active area or optically by supplying light of a desired frequency to the active area. Typically, DBRs or mirror stacks are formed of a material system generally consisting of two materials having different indices of refraction and being easily lattice matched to the other portions of the VCSEL. In conventional VCSELs, conventional material systems perform adequately.

	10.	<u> </u>	Amend the specification by inserting before the first
 	·		line the sentence:, This application is a
	11		continuation, X division, of application Serial
	へ・		Number 09/642,359, filed 21 August 2000, PA 7 6,628,685
	11.	<u> x</u> ´	
			are enclosed.
	12.		sheet(s) of informal drawings and 1 copy of
•			same are enclosed.
	13.	1 1	A Pre-examination Amendment is enclosed.
	14.		Transfer the drawings from the pending prior
	:	The second	application to this application and abandon said prior
		:	application as of the filing date accorded this
			application. A duplicate copy of this sheet is
			enclosed for filing in prior application file. (May
)		Tallic	only be used if signed by person authorized by Section
•	4 1 1	1111111	1.138 and before payment of base Issue Fee.)
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		1	claimed under 35 U.S.C. 119.
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	16.	<u> </u>	The prior application is assigned of record to
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	17.		An Assignment is enclosed.
	18.	X	A Request for Non-Publication
	19.	1 24 (12.44)	Also enclosed,